

## ABSTRACT OF THE DISCLOSURE

A method and system for preventing signal clipping in a molecular array scanner by adding an offset signal to the signal generated by the photodetectors and initial stages of signal processing within a molecular array scanner in order to promote the signal above the level where signal information is lost during analog-to-digital signal conversion and/or digital signal integration. A portion of the offset is then subtracted from the digital signal or integrated digital signals, leaving a smaller, constant offset that is reported to the user, stored in a data file, or otherwise made available for further correction during later molecular array data processing.

10020333-1 02 02 02 02